
Subject: Re: problem with TRIANGULATION option in CONTOUR

Posted by [ben.bighair](#) on Tue, 26 Oct 2010 00:29:19 GMT

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On 10/25/10 3:06 PM, Ardhuin wrote:

> Well, this is exactly what I do not want to do: I want to use my
> triangulation because it contains the information on the grid
> connectivity (islands are "holes" in the grid where the contouring
> should not do any filling).
>
> I have put the basic dataset at this ftp address:
> ftp://ftp.ifremer.fr/ifremer/cersat/products/gridded/wavewat_ch3/TOOLS/IDL/BUG/
> with some illustrative plots. The standard contour fills everything,
> including land. If I do a TRIGRID before a TV then I get what I want:
> land and Islands are blank... but I'd like to do this with contour to
> use the native data resolution...
>

Hi,

When I load the data you have posted and generate the triangulation I get a different number of triangles than you. You can see this in the output of help - note that tri2 has 19160 vertices. Also, you clip the maximum Z value when you use TRIGRID but you don't specify it for CONTOUR. I don't know if these are important issues, but perhaps you are unwittingly comparing apples to oranges?

Cheers,
Ben

```
IDL> .full_reset
IDL> restore, filename =
"/Users/Shared/data/tri/TRIANGULATION_MARSEILLE.sav"
IDL> TRIANGULATE, x, y, tri2
```

```
IDL> help
```

```
% At $MAIN$
DX          FLOAT    =   0.273573
DY          FLOAT    =   0.223977
RANGEX      FLOAT    = Array[2]
RANGEY      FLOAT    = Array[2]
TRI         LONG     = Array[3, 18326]
TRI2        LONG     = Array[3, 19160]
X           FLOAT    = Array[9626]
Y           FLOAT    = Array[9626]
Z           FLOAT    = Array[9626]
```
